

Date: Tue, 27 Apr 93 23:08:54 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #508
To: Info-Hams

Info-Hams Digest Tue, 27 Apr 93 Volume 93 : Issue 508

Today's Topics:

 AM Moulation Question
 CQ DX
 dj162T mods
 How to help an 8 yr old get a license
 Icom IC229H - Questions
 Information on Hamming in U.K.
 New Bosnia Prefix
 no-code defense (3 msgs)
 R2 DC rcvr kit catalog
 Shuttle info, pse...
 test
 Two-Line Orbital Element Set: Space Shuttle
 X-tal filter 75 MHz (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 27 Apr 1993 17:51:56 GMT
From: usc!sol.ctr.columbia.edu!eff!ssd.intel.com!chnews!joshua!
jbromley@network.UCSD.EDU
Subject: AM Moulation Question
To: info-hams@ucsd.edu

In article <1993Apr27.124521.5680@news.unomaha.edu> rerickso@cwis.unomaha.edu
(Ronald D. Erickson) writes:

>

>Several years ago I worked with a Class C Plate Modulated

>transmitter called a Collins 820 E/F. It has been dubbed
>among, if not, the best broadcast transmitter ever made.

I don't know about the 820 E/F, but my nomination for *best*
AM rig is the Collins 21E. Sounded great on the air and
just ran and ran.

On a slightly related track, ie: High-Efficiency AM Transmitters,
does anyone else remember the Doherty Amplifier? This was a
scheme by Western Electric, back when they made broadcasting
equipment, to get Class-C efficiency out of a linear final
amplifier. They actually amplified the positive modulation
peaks separately from the carrier and negative peaks and then
combined them in an output network.

```
+-----+-----+
| Jim Bromley W5GYJ | Celebrating 30 years as a No-Code Technician |
| Intel Corp. m/s CH3-91 | |
| 5000 W. Chandler Blvd. | |
| Chandler,AZ 85226 | |
| tel: 602-554-5183 | Internet: jrbromley@sedona.intel.com |
+-----+-----+
```

Date: 27 Apr 93 16:19:49 +0300
From: pipex!uknet!mcsun!sunic!ebc.ee!piko!juhan@uunet.uu.net
Subject: CQ DX
To: info-hams@ucsd.edu

In <1r6qliINNrr4@rave.larc.nasa.gov> Scott Dorsey (kludge@grissom.larc.nasa.gov)
wrote:

:> Yes, with the new Ronco CLIP-O-TRON transmitter, you can work all the bands
:> at the same time. By generating a square wave with an infinite number of
:> harmonics, you can transmit everywhere, and with our new WHITE NOISE VFO,
:> you can even transmit on all the frequencies within those bands.

:> But wait! There's more! On this special, limited time offer, we'll not
:> only send you the CLIP-O-TRON transmitter, but we'll also send you our brand
:> new NO-SELECT receiver. The NO-SELECT receiver, a miracle of modern
:> technology, actually has no selectivity whatsoever, so you can listen in
:> on all the frequencies from DC to daylight, at the same time. It's a perfect
:> match to the CLIP-O-TRON.

:> That's not all! If you order before midnight tonight, we'll throw in this
:> special BAD-FIST key, as our gift to you! Why be confused with all of those

:> dits and dahs? The BAD-FIST only makes one length of code signal, so it's
:> easier on you.

:> Plus, you get a free set of wind chimes and...
:> --scott

And here comes NeXXT CUBE - THE WHITE SMOKE QSL BOX giving you QSL confirmation
of (all stations) X (all frequencies) X (all modes). And yes! There is the 4th
dimension - all times.

--

Juhan Poeldvere, ES5QX | juhan@chem.ut.ee
Tartu University, Dept. of Chemistry | fax: 372 (34) 35440
2 Jakobi St., EE-2400, Tartu, Estonia, via Stockholm | voice: 372 (34) 35429

Date: Tue, 27 Apr 1993 18:38:13 GMT
From: overload.lbl.gov!agate!howland.reston.ans.net!zaphod.mps.ohio-state.edu!
moe.ksu.ksu.edu!hobbes.physics.uiowa.edu!news.uiowa.edu!news.weeg.uiowa.edu!
vaxa.weeg.uiowa.edu!@dog.ee.lbl.gov
Subject: dj162T mods
To: info-hams@ucsd.edu

I have asked this before, and will continue to inquire until I get an answer

does anyone have the mods for an Alinco DJ162T? There are no mods for this
HT listed on the servers that have been indicated.

Thanks

73

no1wz

n01wz

Date: 27 Apr 1993 16:42:20 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
zaphod.mps.ohio-state.edu!malgudi.oar.net!news.ysu.edu!yfn.ysu.edu!
ag821@network.UCSD.EDU
Subject: How to help an 8 yr old get a license
To: info-hams@ucsd.edu

In a previous article, peterson@phyc1.byu.edu () says:

>My son (almost 8 yrs old) has taken an interest in my relatively new
>amateur radio interest (I finally got around to taking the exams last
>January and got the license in March). Anyway, my question is whether there
>are any good ways for someone that age to study for the exams. He would
>really like to get either a Tech or Tech+HF but I'm not sure how to best help

>him learn what he needs to pass those exams. I have seen both video and
>audio tapes that appeared to have potential but would like to hear some
>other experiences before I spring for the \$20-40 and find out that he can't
>understand a thing they are saying.
>
>I would appreciate any help you may have to offer on this.
>
>Bryan Peterson KB7TEW
>Peterson@phyc1.byu.edu
>

Hi,

My son was 8 and came up to the club ham shack during a DX SSB contest. There were times when I couldn't get thru big pileups and he took the mike and got through first time.. the thinkg is that 8 yr old boys sound like YLs.. had people saying to everyone.. just hold on and let the YL call and say part of the club call sign... well this got him pretty excited bout ham radio.

I made him a bet (a nintendo game) that he couldn't get his license before a given date. I got him the free Macintosh hypercard stacks for the novice test and the software for tests on the PC. I got a copy of Super MORse for the PC.

We designated a certain period of time each day that he would spend studying the code and a certain period where he just went ofover the exam questions. It was a great lesson in keepin on task and learning how to study.

He got bored with the code part.. only used the computer till he learned his letters. .. I then would sit with him and send for about 10-15 min a nite and when we were driving somewhere in the car.. we would play games.. like spelling workds in morse.. or trying to send what was on a sign before we passed it in the car. When he learned enough, we did practice QS0s. As soon as he passed the Novice we sat together and he made one QS0 per nite, I had all the things he needed to say on a typed out sheet with blanks for things like the person's name and call sign and such...it made him a lot more comfortable in the beginning to have it written out in front of him (i have done the same things with older students and adults and it really helps).

Made him another bet about the Tech and lost.. then bet him a big one about not getting his General before he was 9. .. Well it cost me a big trampoline and a set of rooer blades (about \$300--- but best bet I ever lost) He also passed his 20 wpm

CW.

Some may object to just learning the answers to the questions and not the theory.. but most people do that anyway... he has since learned all the correct procedures, and much about theory.. he has built a 2 meter receiver by himself..and it worked the first time.. and is building a SW rec and will build a QRP Transceiver next.

We were away in a cabin for a few days with friends. The cabin was on a lake...the bottom floor had a porch out to a lake for fishing and the top floor had a porch facing the woods..everyone else got the fisherman's part and I got to set up my QRP station and PVC antenna on the top porch. I was having a QSO on the top floor and my son and everyone else were on the other porch fishing. My son turned to the one of the guys (also a ham.. but he doesn't do CW) and said "he is speaking to Jim in Michigan" not bad considering I was a minimum of 13wpm and he was copying in his head...

Keep it fun and use bribes if possible.

73

Jeff,AC4HF

--

Jeff M. Gold, AC4HF
Manager, Academic Computing Support
Tennessee Technological University

Date: 27 Apr 93 12:44:31 EDT
From: saimiri.prima.wisc.edu!news.crd.ge.com!sunblossom!ge-dab!
cho006.cho.ge.com!wright_t@ames.arpa
Subject: Icom IC229H - Questions
To: info-hams@ucsd.edu

I have ordered an Icom IC229H 2-meter mobile transceiver. Does anyone have any opinions or experience with this radio that they would like to share ? Are there any mods ? Does anyone have them ? How do I get them ? Please Email or post to this front; whichever way you see fit.

Tim Wright --- KD4Z00

Date: 27 Apr 1993 18:11:26 GMT

From: sdd.hp.com!cs.utexas.edu!zaphod.mps.ohio-state.edu!howland.reston.ans.net!
torn!nott!bnrgate!bnr.co.uk!uknet!warwick!kinguni2!ceres!ap_v132@decwrl.dec.com
Subject: Information on Hamming in U.K.
To: info-hams@ucsd.edu

Dana H. Myers (dana@lando.la.locus.com) wrote:
: In article <3840@ozz.oasis.icl.co.uk> prs@oasis.icl.co.uk (Peter Swynford)
writes:
: >In article <1r1q3e\$6sq@gdls.gdls.com>, turini@gdls.com (Bill Turini) writes:
: >
: >hamming ; that's an horrible americanism :-(
: >I have an 'Amateur Radio Licence' not a 'Ham Licence'
: >
: >
: >> 4. Are there clubs? Club Stations, etc.
: >yes.. again, typical american ignorance shows.
: >we've got hundreds of clubs, many of them date back to the 1920s & 30s.
: >
: I'm not sure what is worse; typical American ignorance or typical British
: arrogance :-)

: I lived in the UK for a year, too.

Don't worry too much, because we are so much smaller over here we tend
to feel insecure and so we rely on our 'wonderful' history to try and
make ourselves look superior. Typical inferiority complex. I have met
quite a few Americans and I liked most of them - but then I don't like a
lot of the people I meet in the UK so who knows?

The point of this is, just because some people have a generic dislike of
others, do not assume that all of us are the same.

-Niall

--

--==*****==--

Niall Pagdin, Student Advisory (SC), Kingston University.
E-Mail: niall@atlas.king.ac.uk

"Paranoia is not a disease - its a way of life!"

Date: Tue, 27 Apr 1993 22:59:55 GMT
From: world!sharon@uunet.uu.net
Subject: New Bosnia Prefix
To: info-hams@ucsd.edu

I am not 100% sure I understood correctly, but I believe a ham friend in Sarajevo said they expect to begin using the new prefix T9 as of May 25. I also believe that a "4N4" station would become "T94."

73,

Sharon KC1YR

--

Sharon Machlis Gartenberg
Framingham, MA USA
e-mail: sharon@world.std.com

Date: Tue, 27 Apr 93 23:22:54 GMT
From: news.cerf.net!pagesat!netsys!agate!headwall.Stanford.EDU!nntp.Stanford.EDU!
calvin!paulf@network.UCSD.EDU
Subject: no-code defense
To: info-hams@ucsd.edu

In article <1993Apr27.185354.4329@nnntp2.cxo.dec.com> little@nuts2u.enet.dec.com
(nuts2u::little) writes:
>The *point* is why does the U.S. have this graduated
>access to the HF bands based primarily on demonstration of increasing
>level of ability to copy only one of the many permitted modes of
>operation?

Come on folks, put the followups to this puppy in rec.radio.amateur.policy,
where they belong. Especially those of you who know better.

--

--Paul Flaherty, N9FZX | "Just name a hero, and I'll prove he's a bum."
->paulf@Stanford.EDU | -- Col. Gregory "Pappy" Boyington, USMC (ret)

Date: Tue, 27 Apr 93 23:26:46 GMT
From: news.cerf.net!pagesat!netsys!agate!headwall.Stanford.EDU!nntp.Stanford.EDU!
calvin!paulf@network.UCSD.EDU
Subject: no-code defense
To: info-hams@ucsd.edu

In article <C65wID.Lvn@ucdavis.edu> ez006683@othello.ucdavis.edu (Daniel D. Todd)
writes:
>And I was doing so well at staying out of this whole thread. ;-)

But not so well in terms of following up to rec.radio.amateur.policy, which is where this belongs....

--

-=Paul Flaherty, N9FZX | "Just name a hero, and I'll prove he's a bum."
->paulf@Stanford.EDU | -- Col. Gregory "Pappy" Boyington, USMC (ret)

Date: Tue, 27 Apr 1993 20:53:31 GMT
From: pa.dec.com!nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com
Subject: no-code defense
To: info-hams@ucsd.edu

system@garlic.sbs.com (Anthony S. Pelliccio) writes:

>> Glad to hear that. I made the effort and I *still* think the code
>> requirement is a crock.

>

>Well, I don't. It's still a good operating mode on HF.

> .

> .

> .

>You keep missing the point... are you totally clueless or what?

No, but I guess you are. The *point* isn't whether code is a good operating mode. The *point* is why does the U.S. have this graduated access to the HF bands based primarily on demonstration of increasing level of ability to copy only one of the many permitted modes of operation? Those clueless like yourself spend all your time bashing others and defending the mode instead of listening. You probably turn on your radio and start transmitting before you ever turn up the receive volume to and audible level.

>FOAD de KD1NR

Yup, demonstrated knowledge of morse code certainly improves ones communication skills and operating practices. Thanks for proving my point.

And to the no-code technicians out there, don't let these blow hards turn you off. Not all morse impaired individuals have KD1NR's attitude. You can actually meet some nice hams in the CW portions of the bands. :-)

73,

Todd
N9MWB

PS To the non-clueless, forgive the post here, but my news reader won't let me follow up to another group, sigh.

Date: 27 Apr 93 16:49:40 GMT
From: auratek!epacyna@uunet.uu.net
Subject: R2 DC rcvr kit catalog
To: info-hams@ucsd.edu

In article <805@wpsun4.UUCP>, mb@wpsun4.UUCP (Michael Bendio) writes:

> Has anyone received a reply from Rick Campbell, KK7B, in
> response to a request for a catalog or any information
> regarding his high-performance direct-conversion receiver
> (QST, Jan. 1993)? I wrote him for info when the article
> appeared, and then again about 6 weeks ago, enclosing an
> SASE both times. Nada. Anyone had better luck than me?

I send a check to purchase the R2 board in December. After over 3 months of no product or reply, I sent a follow up letter. 30 days later, no reply. I ordered a R1 type board last year. Took 4 months to get it. I wrote to the ARRL several times to see what they could do. ARRL did not even reply to my note. I noticed that they published more material and offers to sell stuff by Rick Campbell in current issue though.

I'm really concerned about the poor track record shown by this Applied Radio Science, Rick Campbell KK7B, so far. Your only out your SASE's!

Ed W1AAZ

Date: Tue, 27 Apr 1993 15:07:10 GMT
From: spsgate!mogate!newsgate!usenet@uunet.uu.net
Subject: Shuttle info, pse...
To: info-hams@ucsd.edu

Greetings...

Can someone post the freqs and offsets for the current SAREX? I know it was probably in QST but I can't find it anywhere.

Thanks & 73... Mark AA7TA

Date: 27 Apr 93 13:01:05 EDT
From: pacbell.com!iggy.GW.Vitalink.COM!wetware!spunky.RedBrick.COM!psinntp!
psinntp!arrl.org@network.UCSD.EDU
Subject: test
To: info-hams@ucsd.edu

this is a test
Tammy-Beth Zimmerman
Administrative Assistant
Membership Services Department

ARRL
225 Main St
Newington CT 06111
(203) 666-1541

Date: Tue, 27 Apr 1993 22:49:28 GMT
From: iris.mbvlab.wpafb.af.mil!blackbird.afit.af.mil!tkelso@uunet.uu.net
Subject: Two-Line Orbital Element Set: Space Shuttle
To: info-hams@ucsd.edu

The most current orbital elements from the NORAD two-line element sets are carried on the Celestial BBS, (513) 427-0674, and are updated daily (when possible). Documentation and tracking software are also available on this system. As a service to the satellite user community, the most current elements for the current shuttle mission are provided below. The Celestial BBS may be accessed 24 hours/day at 300, 1200, 2400, 4800, or 9600 bps using 8 data bits, 1 stop bit, no parity.

Element sets (also updated daily), shuttle elements, and some documentation and software are also available via anonymous ftp from archive.afit.af.mil (129.92.1.66) in the directory pub/space.

STS 55

1 22640U 93 27 A 93117.24999999 .00043819 00000-0 13174-3 0 47
2 22640 28.4694 264.3224 0004988 261.3916 194.3250 15.90699957 104

--

Dr TS Kelso
tkelso@afit.af.mil

Assistant Professor of Space Operations
Air Force Institute of Technology

Date: 27 Apr 1993 13:37:09 GMT
From: news.larc.nasa.gov!grissom.larc.nasa.gov!kludge@ames.arpa

Subject: X-tal filter 75 MHz
To: info-hams@ucsd.edu

In article <1414@arrl.org> zlau@arrl.org (Zack Lau) writes:
>In rec.radio.amateur.misc, dihi@bsdihl.atr.bso.nl (Dick Hissink) writes:
>>Where can I buy a 75 Mhz X-tal filter, bandwidth 2,4 kHz. ???
>>What is the price for such a filter??
>>
>>Any reactions welcome!
>
>I doubt you can afford to buy one, though I have an idea
>how to build one. First off, you need very high Q crystals,
>probably around 300,000 or better to really make this work.
>While I've heard it is possible to get crystals made with
>Qs in excess of a million, I've also heard they don't like
>to make such crystals. It might be related to stability--a
>rough rule of thumb is to cut your crystals to an accuracy of
>1/10th you bandwidth--240 Hz in this case (3.2 ppm).
>(for reference, cheap crystals are often one order of magnitude
>worse with regard to both Q and frequency accuracy).

True enough, but can't you get off-the-shelf SAW filters in that range?
I don't know if they come that narrow, offhand, but you might manage to
use a wider one and then filter the demodulated audio also.
--scott

Date: 27 Apr 93 15:33:50 GMT
From: noao!ncar!gatech!howland.reston.ans.net!usc!sdd.hp.com!hpscit.sc.hp.com!
news.dtc.hp.com!srngenprp!glenne@arizona.edu
Subject: X-tal filter 75 MHz
To: info-hams@ucsd.edu

David Stockton (dstock@hpbqmoqa.sqf.hp.com) wrote:
: 75MHz has been used as a first IF for up-converting HF receivers, so
: filters have appeared in various suppliers catalogues. As these fit
: before the main selectivity, the bank of different bandwidth filters in
: a typical receiver, they are designed to be wider than the widest mode.
: 20kHz bandwidth is about the narrowest I've seen.

Not to detract from the replies indicating the difficulty of getting
precise narrow linewidth/highQ directly at these higher frequencies, I
have a 10 KHz wide Quartztek filter centered at 70.0 MHz sitting here on
the bench. It seems like many of the current HF transceivers use a
first IF in this region and I thought that 10-20 KHz width was common.
I think that this first filter is the determining width for the nbfm
mode on my IC735. I suspect it is no more than 20-30 KHz wide. Maybe

someone has a manual handy for a similar radio and can say.

I don't know what this Quartztek originally sold for but it has reasonable shape factor and stop band. Once you get past some stuff about 50 dB down a few hundred kilohertz low of center it manages to get down to -100 dB territory. It's in about a 3/4" X 1 1/2" X 3" metal can with BNCs on it. It's excess to my needs so if the original poster really still wants a quartz filter at 70 MHz let me know. I don't know how many poles it is but it has 5-6 dB insertion loss (some ripple in the passband).

73

Glenn Elmore n6gn

N6GN @ K3MC

amateur IP: glenn@SantaRosa.ampr.org

Internet: glenne@sr.hp.com

Date: Tue, 27 Apr 93 15:35:46 GMT

From: usc!howland.reston.ans.net!europa.eng.gtefsd.com!emory!sol.ctr.columbia.edu!
destroyer!cs.ubc.ca!unixg.ubc.ca!kakwa.ucs.ualberta.ca!alberta!adec23!

mark@network.UCSD.EDU

To: info-hams@ucsd.edu

References <ASGRI6NGP@linac.fnal.gov>, <pschleck.735431806@cwis>,
<99WU0346d06a00@amdahl.uts.amdahl.com>

Subject : Re: rec.radio.amateur reorg/RFD discussion summary 4/11

ikluft@uts.amdahl.com (Ian Klufft) writes:

>>I believe Dr. Kelso (tkelso@blackbird.afit.af.mil) was handling those.
>>Because of technical problems with cross-posting directly that are
>>peculiar to his site, he separately posts them to *.misc and *.info.
>>Mark is actively working with the few individuals having technical
>>problems to allow prompt, and simultaneous, crossposting. In any event,
>>the newsgroup mostly works, and I'm hesitant to throw out the concept
>>for a few bugs in the system.
>That's who to contact... Mark? Should we leave that to you?

Yup ...

Dr. Kelso currently sends the postings to me for posting (which get gleaned automatically and posted immediately from my site), he has indicated that things will improve shortly :-)

John's SpaceNews reports may also be solved shortly as well, he is
'experimenting' ...

Solar reports are still posted at my site from Cary's mailing list (and also passed to packet radio too), but I am reluctant to have them cross-posted at the moment since I can not compete against the fine propagation time that the ucsd.edu mail to news gateway has (at the moment, the Internet host that is responsible for my postings is short of disk space and has been moved to low priority solutions ...). Also, my attempt to have his messages cross-posted to sci.space.news (also a moderated group) as well met with, ahem, problems.

If anyone has a well connected central site that is willing to hack at the mail to news software to allow cross-posting? ;-}

The next thing to do is to standardize the Message-IDs so that messages going to packet match, somewhat, to the Packet BIDs:

Message-ID: <\$amsat.o51@ampr.org>

allowing for messages to cross back and forth between the two domains ...

Ciao -- Mark
My simple world

Date: Tue, 27 Apr 1993 21:37:20 GMT
From: netcomsv!netcom.com!steview@decwrl.dec.com
To: info-hams@ucsd.edu

References <734345121.AA00756@his.com>, <1993Apr9.165907.66000@cc.usu.edu>,
<LINNIG.93Apr14160458@m2000.dseg.ti.com>p
Subject : Re: Want Jammer in Slammer

> In article <1993Apr9.165907.66000@cc.usu.edu> slp9m@cc.usu.edu (Scott E. Parker WA7VYJ) writes:

>

>The first thing to do is for all involved in the hunt (the more the merrier) to
>go knock on the guy's door and have a group spokesman politely tell him
> something on the order of, "we know what you do and we know who you are".
> Doesn't always work, but it has in a number of cases. It's worth a try before
> resorting to more drastic measures.

I hope I got the attribution correct... I'm responding to
a followup:

Anyway, I'd like to suggest that this isn't the best way to approach the problem. Don't forget that a fair percentage of the individuals who take up jamming as a pastime aren't all together upstairs in the first place.

Any type of confrontation in person can be hazardous to your health!
Heck, we've even had T hunters threatened with guns locally...the guy
who did the threatening further suggested that he'd call the police
which the T hunters encouraged him to do(with there hands up or some
such..) The police wound up taking the guy with the gun to jail ;-)
But the best policy is to avoid such situations in the first place.

If you know the address of the offender then a card or letter stating
your position is a hell of a lot safer! If the problem continues
document you situation and turn it over to the FCC/00 corp.

Steve KA6S

End of Info-Hams Digest V93 #508
